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#### 1 [Design of a high-performance ATM firewall](#)

[Jun Xu, Mukesh Singhal](#)

 August 1999 [Transactions on Information and System Security \(TISSEC\)](#) . Volume 2 Issue 3

 Publisher: ACM [Request Permissions](#)

 Full text available [PDF](#) (143.19 KB)

 Additional Information: [full citation](#) [abstract](#) [references](#) [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 117, Downloads (Overall): 1674, Citation Count: 1

A router-based packet-filtering firewall is an effective way of protecting an enterprise network from unauthorized access. However, it will not work efficiently in an ATM network because it requires the termination of end-to-end ATM connections at a ...

Keywords: TCP/IP, asynchronous transfer mode, firewall, packet filtering, switch architecture

#### 2 [Proceedings of the 2000 ACM/IEEE conference on Supercomputing \(CDROM\)](#)

[Jed Connelley](#)

 November 2000 [Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing](#) (CDROM)

Publisher: IEEE Computer Society

 Additional Information: [full citation](#) [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

#### 3 [Key management for restricted multicast using broadcast encryption](#)

[Murali Arudath, Nival Shavati, Avishai Wool](#)

 August 2000 [IEEE/ACM Transactions on Networking \(TON\)](#) . Volume 8 Issue 4

Publisher: IEEE Press

 Full text available [PDF](#) (291.54 KB)

 Additional Information: [full citation](#) [abstract](#) [references](#) [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 50, Downloads (Overall): 573, Citation Count: 20

#### 4 [Profiles for the situated web](#)

[Lailtha Survanavara, Johan Hjalim](#)

 May 2002 [WWW '02: Proceedings of the 11th international conference on World Wide Web](#)

Publisher: ACM

 Full text available [PDF](#) (263.89 KB)

 Additional Information: [full citation](#) [abstract](#) [references](#) [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 50, Downloads (Overall): 1000, Citation Count: 4

The World Wide Web is evolving into a medium that will soon make it possible for conceiving and implementing situation-aware services. A situation-aware or situated web application is one that renders the user with an experience (content, interaction ...

Keywords: OC/PP, XML, profiles, situated-aware applications, vocabulary, web architecture

#### 5 [Mobile and multicast IP services in PACS: system architecture, prototype, and performance](#)

[Yongquan Zhang, Bo Du](#)

 January 2001 [Mobile Networks and Applications](#) . Volume 6 Issue 1

Publisher: Kluwer Academic Publishers

 Full text available [PDF](#) (299.74 KB)

 Additional Information: [full citation](#) [abstract](#) [references](#) [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 20, Downloads (Overall): 157, Citation Count: 1

Keywords: Mobile IP, PACS, cellular network, internet service, multicast

#### 6 [Trust management for IPsec](#)

 May 2002 [Transactions on Information and System Security \(TISSEC\)](#) . Volume 5 Issue 2

 Publisher: ACM [Request Permissions](#)

 Full text available [PDF](#) (221.98 KB)

 Additional Information: [full citation](#) [abstract](#) [references](#) [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 120, Downloads (Overall): 2082, Citation Count: 5

IPsec is the standard suite of protocols for network-layer confidentiality and authentication of Internet traffic. The IPsec protocols, however, do not address the policies for how protected traffic should be handled at security end points. This article ...

**Keywords:** Credentials, IPsec, KeyNote, network security, policy, trust management

7 [Scalable, graph-based network vulnerability analysis](#)

[Paul Ammann](#), [Gurinda Wirosekera](#), [Soren Kaushik](#)

November 2002 **CCS '02: Proceedings of the 9th ACM conference on Computer and communications security**

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (186.19 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 320, Downloads (Overall): 1961, Citation Count: 36

Even well administered networks are vulnerable to attack. Recent work in network security has focused on the fact that combinations of exploits are the typical means by which an attacker breaks into a network. Researchers have proposed a variety of graph-based ...

**Keywords:** exploit, model checking, monotonic analysis, network security, scalability, vulnerability

8 [A framework for constructing features and models for intrusion detection systems](#)

[Heekoo Lee](#), [Sabihollah Khan](#)

November 2000 **Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 4

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (187.03 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 56, Downloads (12 Months): 511, Downloads (Overall): 4474, Citation Count: 70

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, ...

**Keywords:** data mining, feature construction, intrusion detection

9 [Towards a taxonomy of software connectors](#)

[Nikhil B. Mehta](#), [Nand Medvidovic](#), [Sandee Padua](#)

June 2000 **ICSE '00: Proceedings of the 22nd international conference on Software engineering**

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (184.27 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 205, Downloads (Overall): 1595, Citation Count: 68

Software systems of today are frequently composed from prefabricated, heterogeneous components that provide complex functionality and engage in complex interactions. Existing research on component-based development has mostly focused on component structure, ...

**Keywords:** classification, software architecture, software connector, taxonomy

10 [Architecture and design of AlphaServer GS320](#)

[Kourosh Ghaharborlou](#), [Madhu Sharma](#), [Simon Stealy](#), [Stephen Van Doren](#)

November 2000 **SIGPLAN Notices**, Volume 35 Issue 11

**Publisher:** ACM [Request Permissions](#)

Full text available [PDF](#) (1.67 MB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 32, Downloads (Overall): 569, Citation Count: 3

This paper describes the architecture and implementation of the AlphaServer GS320, a cache-coherent non-uniform memory access multiprocessor developed at Compaq. The AlphaServer GS320 architecture is specifically targeted at medium-scale multiprocessing ...

11 [PCI Symphony Network Cards](#)

[Denny Fox](#)

August 2000 **Linux Journal**, Volume 2000 Issue 76ss

**Publisher:** Specialized Systems Consultants, Inc.

Full text available [PDF](#) (20.56 KB)

Additional Information: [Full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 5, Downloads (Overall): 105, Citation Count: 0

12 [Through the far looking glass: collaborative remote observing with the W. M. Keck Observatory](#)


[Robert Kubick](#), [Al Conrad](#), [Andrew Faria](#)

May 1998 **Interactions**, Volume 5 Issue 3

**Publisher:** ACM [Request Permissions](#)

Full text available  [PDF](#) (1 05 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 11, Downloads (Overall): 193, Citation Count: 2

**13** [Aliasing on the world wide web: prevalence and performance implications](#) Terence Kelly, Jeffrey MogulMay 2002 **WWW '02: Proceedings of the 11th international conference on World Wide Web**  
Publisher: ACMFull text available  [PDF](#) (376 28 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 31, Downloads (Overall): 436, Citation Count: 14

Aliasing occurs in Web transactions when requests containing different URLs elicit replies containing identical data payloads. Conventional caches associate stored data with URLs and can therefore suffer redundant payload transfers due to aliasing and ...

**Keywords:** DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, duplicate suppression, duplicate transfer detection, hypertext transfer protocol, performance analysis, redundant transfers, resource modification, world wide web

**14** [Tarzan: a peer-to-peer anonymizing network layer](#) Michael J. Freedman, Robert MorrisNovember 2002 **CCS '02: Proceedings of the 9th ACM conference on Computer and communications security**Publisher: ACM Full text available  [PDF](#) (242 72 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 127, Downloads (Overall): 1470, Citation Count: 73

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides IP service, Tarzan is general-purpose and transparent to applications. Organized as a decentralized peer-to-peer overlay, Tarzan is fault-tolerant, highly scalable, and easy to ...

**Keywords:** IP tunnels, anonymity, cover traffic, distributed trust, mix-nets, overlay networks, peer-to-peer

**15** [Cooking with Linux: A Few Recipes for Easier Firewalls](#)

Marcel Gagne

October 2000 **Linux Journal**, Volume 2000 Issue 78es

Publisher: Specialized Systems Consultants, Inc.

Full text available  [HTML](#) (16 37 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 13, Downloads (Overall): 199, Citation Count: 0

This month Marcel writes about how to build firewalls.

**16** [Requirements for and evaluation of RMI protocols for scientific computing](#)

Machusudhan Govindaraju, Aleksander Stomunski, Venkatesh Chinnappa, Randall Bramley, Dennis Gannon

November 2000 **Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**


Publisher: IEEE Computer Society

Full text available  [PDF](#) (306 83 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 34, Downloads (Overall): 611, Citation Count: 14

Distributed software component architectures provide a promising approach to the problem of building large scale, scientific Grid applications. Communication in these component architectures is based on Remote Method Invocation (RMI) protocols that ...

**Keywords:** Distributed computing, software component systems, communication protocols, RMI, Java, SOAP

**17** [An integrated environment for testing mobile ad-hoc networks](#) Yingqiang Zhang, Wei LiJune 2002 **MobiHoc '02: Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**Publisher: ACM Full text available  [PDF](#) (315 26 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 116, Downloads (Overall): 1786, Citation Count: 25

Mobile Ad-Hoc Network (MANET) has become an increasingly active research area with a plethora of work in ad-hoc routing, media access, and protocols, etc. However, much of the effort so far has been in simulation with only a few systems that have ever ...


**Keywords:** MANET, emulation, mobile ad hoc networks, multi-hop routing, packet filter, testbed

18 [Vinci: a service-oriented architecture for rapid development of web applications](#)

Pakesh Agrawal, Roberto J. Savaide, J., Daniel Grub, Suresh Padamthi

April 2001 WWW '01: Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available  [PDF](#) (472.82 KB)Additional Information [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Downloads (Overall): 2030, Citation Count: 11

19 [Consistency management in Deno](#)

Peter J. Kuehner, Hour Oulimanel

December 2000 Mobile Networks and Applications, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available  [PDF](#) (151.24 KB)Additional Information [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 7, Downloads (Overall): 165, Citation Count: 4


We describe a new replicated&dash;object protocol designed for use in mobile and weakly&dash;connected environments. The protocol differs from previous protocols in combining epidemic information propagation with voting, and in using fixed per&dash;object ...

20 [Algorithms for provisioning virtual private networks in the hose model](#)

Amir Koster, Gideon Peleg, Avi Silberschatz, Eyal Yarov

August 2002 IEEE/ACM Transactions on Networking (TON), Volume 10 Issue 4

Publisher: IEEE Press

Full text available  [PDF](#) (500.89 KB)Additional Information [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 57, Downloads (Overall): 734, Citation Count: 9

Virtual Private Networks (VPNs) provide customers with predictable and secure network connections over a shared network. The recently proposed hose model for VPNs allows for greater flexibility since it permits traffic to and from a hose ...

**Keywords:** LP rounding, approximation algorithms, bandwidth utilization, facility location problem, hose model, primal-dual algorithms, provisioning, steiner trees, virtual private networks

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